-1

*	Application No.	Applicant(s)
Nation of Allowshills	10/784,821	IBA, YOSHIHISA
Notice of Allowability	Examiner	Art Unit
•	Cheung Lee	2812
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>the Amendment filed</u>	<u>on 8/16/06</u> .	
2. The allowed claim(s) is/are 2-13 and 17-22.		
 3. Acknowledgment is made of a claim for foreign priority uner a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 	been received.	- -
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the O	ffice action of
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. Notice of References Cited (PTO-892)	5. ☐ Notice of Informal P	atent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary Paper No./Mail Dat	
3. Information Disclosure Statements (PTO/SB/08),	7. 🛛 Examiner's Amendo	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. Examiner's Stateme	ent of Reasons for Allowance
•	9. Other	11/1/1
	Man	all plants
		EBENTRITT ATENT EXAMINER

DETAILED ACTION

Notice to Applicant

Applicant's Amendment and Response to the Office Action mailed on May 16,
 2006 has been entered and made of record.

Response to Arguments

- 2. In view of applicant's arguments to the objection of the specification, the objection has been withdrawn.
- 3. In view of applicant's amendments and arguments filed on August 16, 2006, the rejections of claims 2-13 and 17-25 under 35 U.S.C. 103(a) as stated in the indicated Office Action have been withdrawn.

Examiner's Amendment

- 4. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 5. The application has been amended as follows:

This application is in condition for allowance except for the presence of claim 1 directed to an invention non-elected without traverse. Accordingly, claim 1 has been cancelled.

Reason for Allowance

6. Claims 2-13 and 17-22 are allowed.

The following is an examiner's statement of reasons for allowance: claims 2, 8 and 12 recite forming a wiring trench and a via hole reaching the SiC barrier film in the interlayer dielectric film; performing plasma processing on side surfaces of the interlayer dielectric film, the side surfaces being exposed to the wiring trench and a via hole with the interconnection being covered with the SiC barrier film; etching the SiC barrier film to allow the via hole to reach the interconnection, after the plasma processing. These features in combination with the other elements of the claim are neither disclosed nor suggested by the prior art of record.

Claims 3-7, 9-11 and 13-22 variously depend from claim 2, 8 or 12, so they are allowed for the same reason.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cheung Lee whose telephone number is 571-272-5977. The examiner can normally be reached on Monday through Friday from 8:30AM to 5:00 PM.

Application/Control Number: 10/784,821

Art Unit: 2812

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Lebentritt can be reached on 571-272-1873. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Cheung Lee

October 27, 2006

MICHAEL LEBENTRITT
SUPERVISORY PATENT EXAMINER

Page 4